

Image



Docket No. T2315-907879US02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Murat O. Balaban :
Serial No.: 10/662,883 : Art Unit:
Filed: September 16, 2003 :
For: METHOD AND APPARATUS FOR CONTINUOUS : Examiner:
FLOW REDUCTION OF MICROBIAL AND/OR
ENZYMATIC ACTIVITY IN A LIQUID PRODUCT :
USING CARBON DIOXIDE

INFORMATION DISCLOSURE STATEMENT

Mail Stop DD
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with Applicants duty of disclosure, the following information is submitted for consideration by the U.S. Patent and Trademark Office in connection with the above-identified application.

Since this statement is filed prior to three (3) months of the filing date of this application, and prior to the mailing of the first office action, no fee is believed to be required.

The application relies under 35 USC §120, on the earlier filing date of prior U.S. Application Serial No. 10/136,378 filed May 2, 2002 (pending), which is a continuation of Application Serial No. 09/613,714 filed July 11, 2000 (now abandoned), which is a continuation-in-part of Application Serial No. 09/314,945 filed May 20, 1999 (now abandoned). The references identified on the attached Form PTO-1449 were submitted to and/or cited by the applicant, International Searching Authority, or the Patent Office in the prior application and, therefore copies are not required to be provided. (see 37 CFR §1.98(d)).



It is respectfully requested that the Examiner fully consider each of the documents, initial the enclosed Form PTO-1449 in the appropriate place to indicate that the document has been considered, and return a copy of the initialed form to the undersigned in accordance with MPEP Section 609.

Respectfully submitted,

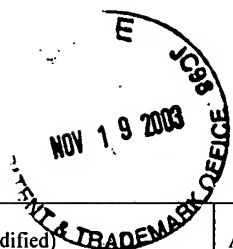
MILES & STOCKBRIDGE P.C.

A handwritten signature in black ink, appearing to read "Dennis P. Clarke".

Dennis P. Clarke
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Filed: November 19, 2003

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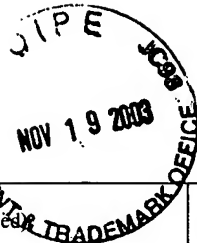


PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. T2315-907879US02	SERIAL NUMBER 10/662,883
	APPLICANT Murat O. Balaban	
	FILING DATE September 16, 2003	GROUP ART UNIT

U.S. PATENT DOCUMENTS

<u>EXAMINER INITIAL</u>	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	5,869,123	2/99	Osajima et al.			
	5,704,276	1/98	Osajimma et al.			
	5,667,835	9/97	Osajima et al.			
	5,520,943	5/96	Osajima et al.			
	5,393,547	2/95	Balaban et al.			
	5,232,726	8/93	Clark et al.			
	3,477,856	11/69	W.G. Schultz			
	2,569,217	9/51	Bagdigian			
	2,713,232	7/55	Peterson			
	2,838,403	6/58	Notter			
	2,967,777	1/61	Grindrod			
	3,442,660	5/69	Shank			
	3,597,235	8/71	Kramer			
	4,048,342	9/77	Haas et al.			
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	4,310,560	1/82	Doster et al.			
	4,664,922	5/87	Leon et al.			
	2,356,498	8/1944	Bargeboer			
	4,804,552	2/1989	Ahmed et al.			
	4,919,960	4/1990	Ahmed et al.			
	6,667,835	9/1997	Yutaka et al.			

EXAMINER	DATE CONSIDERED
EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.	



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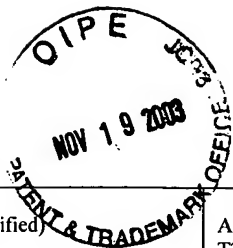
U.S. PATENT DOCUMENTS

<u>EXAMINER INITIAL</u>	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

<u>EXAMINER INITIAL</u>	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	FILING DATE
	3,027,268	2/1991	Japan (Abstract)			
	2,280,240	2/2000	Canada			
	332,641	7/1930	England			
	015,184	12/1981	EPO			
	WO 89/02221	3/1989	PCT			
	812,544	12/1997	EPO			

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Kamihira, M. et al., "Sterilization of microorganisms with supercritical carbon dioxide", Agricultural and Biological Chemistry, Vol. 51, No. 2, pp. 407-412 (1987) (abstract)
	Arreola, A.G. et al., "Supercritical carbon dioxide effects on some quality attributes of single strength orange juice", J. of Food Science, Vol. 56, No. 4, pp. 1030-1033 (1991) (abstract)
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	Balaban, M.O. et al., "Enzyme Inactivation by Pressurized Carbon Dioxide", Science for the Food Industry of the 21 st Century (Yalpani, M. ed., ATL Press), pp. 239-251 (1993)
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